

IN THE CLAIMS

No amendments are made to the claims, which are reproduced for the Examiner's convenience as follows:

1. (ORIGINAL) A computer implemented method for provisioning broadband service in a Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:
transmitting an authentication request from a modem to a single configuration domain name over a PPPoE network; and
receiving authorization from said configuration domain name.
2. (ORIGINAL) The method of claim 1, further comprising, prior to said transmitting step, the step of providing a modem that includes a configuration domain name associated with a configuration Broadband Service Node (BSN).
3. (ORIGINAL) The method of claim 1, further comprising, prior to said transmitting step, the step of establishing a PPPoE session.
4. (ORIGINAL) The method of claim 1, further comprising, prior to said transmitting step, the steps of:
requesting only a single identifier from a user of a client computer;
receiving said identifier; and
storing said identifier.
5. (ORIGINAL) The method of claim 4, wherein said transmitting step comprises transmitting an authorization request containing said identifier and a generic password to said single configuration domain name.
6. (ORIGINAL) A method of claim 1, wherein said receiving step comprises acquiring at least one temporary dynamic Internet Protocol (IP) address.

7. (ORIGINAL) The method of claim 6, further comprising:
transmitting a configuration request to an Internet Service Provider (ISP), where said configuration request is addressed from said dynamic IP address;
receiving full configuration details from said ISP, where said full configuration details include a static IP address, and where said full configuration details are addressed to said dynamic IP address; and
automatically configuring said modem based on said full configuration details.
8. (PREVIOUSLY PRESENTED) A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:
at least one client computer;
a modem coupled to said client computer, said modem including a memory comprising:
instructions for transmitting an authentication request from a modem to a single configuration domain name over a PPPoE network; and
instructions for receiving authorization from said configuration domain name;
a single configuration Broadband Service Node (BSN) coupled to said modem, where said single configuration domain name is associated with said single configuration BSN; and
an authentication server coupled to said single configuration BSN.
9. (ORIGINAL) The system of claim 8, further comprising:
a Digital Subscriber Line Access Multiplexor (DSLAM) coupled between said modem and said single configuration BSN;
an Asynchronous Transfer Mode (ATM) network coupled between said DSLAM and said single configuration BSN; and
a Broadband Remote Access Server (BRAS) coupled between said ATM network and said single configuration BSN.
10. (PREVIOUSLY PRESENTED) The system of claim 8, further comprising:

multiple Broadband Service Nodes (BSNs) coupled to said modem, where each of said BSNs is associated with a different domain name; and
an authentication server coupled to each one of said multiple BSNs.

11. (ORIGINAL) The system of claim 10, wherein said multiple BSNs are coupled to the Internet.

12. (ORIGINAL) The system of claim 8, wherein said memory further comprises a generic password.

13. (ORIGINAL) A computer program product for use in conjunction with a computer system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, the computer program product comprising a computer readable storage and a computer program stored therein, the computer program comprising:

instructions for transmitting an authentication request from a modem to a single configuration domain name over a PPPoE network; and
instructions for receiving authorization from said configuration domain name.